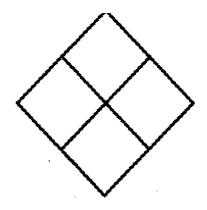


Ridge Tool Company 400 Clark Street Elyria, Ohio 44036-2023, U.S.A.



MATERIAL SAFETY DATA SHEET

SECTION 1 - P	RODUCT INFO	RMAT	ION					
PRODUCT NAME:				EMERGENCY TELEPHONE NUMBER:				
NICKEL CADMIUM BATTERY				(312) 595-5600				
MANUFACTURER:				TELEPHONE NUMBER FOR INFORMATION:				
SANYO ENERGY CORP.				1-800-519-3456	1-800-519-3456			
DOT PROPER SHIPPING NAME:				DATE PREPARED:	DATE PREPARED:			
NOT A REGULATED MATERIAL				FEBRUARY 27, 1998				
SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION								
		CAS						
HAZARDOUS COMPONENTS		NUMBER		OSHA PEL	ACGIH	TLV	%	
Cadmium Hydroxide		N/A		None Established	None Established 11-2		11-26	
Nickel Hydroxide		N/A		None Established	None Established 5-12		5-12	
Nickel Powder		N/A		None Established	None Established 8		8-17	
Potassium Hydroxide		N/A		None Established	None Established		Less than 3	
Lithium Hydroxide		N/A		None Established	None Established		Less than 3	
SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS								
Boiling Point:		Ŋ/A		Specific Gravity (H ² 0 = 1):		N/A		
Vapor Pressure (mm Hg.)		N/A		Solubility in Water:		No Violent Reaction		
Vapor Density (Air = 1)		N/A	Evaporation Rate (Butyl Acetate		cetate = 1)	<u> </u>		
APPEARANCE AND ODOR: Sealed cylindrical batteries.								
SECTION IV - FIRE AND EXPLOSION HAZARD DATA								
Flash Point: (Method N/A	Used)			Flammable Limits: LE		• [UEL:	
Extinguishing Media:								
N/A								
Special Fire Fighting Procedures:								
N/A								
Unusual Fire and Explosion Hazards:								
N/A								
SECTION V - REACTIVITY DATA								
Stability Unstable Conditions to Avoid:								
•	Stable X							
Incompatibility: (Materials to Avoid)								
Hazardous Decomposition or Byproducts:								
Hazardous	May Occur Conditions t			itions to Avoid:				
Polymerization	Will not Occur			None				

SECTION VI - HEALTH HAZARD DATA Ingestion? Route(s) of Entry: Inhalation? Х X Health Hazards: (Acute and Chronic) Skin/Eyes: Contents from an opened battery may cause severe irritation and chemical burns. Swallowing: Electrolyte may cause serious localized burns. Cadmium compounds may cause choking, nausea, vomiting, unconsciousness, and possible liver and kidney injury. Carcinogenicity: Nickel powder and cadmium compounds are known to cause cancer to humans. Signs and Symptoms of Exposure: Caustic irritation or burns. Medical Conditions Generally Aggravated by Exposure: Overexposure is unlikely to aggravate existing medical conditions. Emergency and First Aid Procedures: Swallowing: Do not induce vomiting. Seek medical attention. Skin: If contents from an opened battery come in contact with the skin, wash with soap and water. Eyes: If contents from an opened battery come in contact with eyes, flush with water for at least 15 minutes. Seek medical attention. SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE. Steps to be Taken in Case Material is Released or Spilled: Handle spilled electrolytes with rubber gloves when wiping up spillage and neutralize electrolytes with diluted Waste Disposal Method: Do not incinerate or subject cells to temperatures in excess of 100°. Can vaporize liquid electrolyte and cause cell Precautions to be Taken in Handling and Storing: Store in cool place, but prevent condensation on cell or battery terminals. Storage temperature -30 to 35°C. Other Precautions: Contact Sanyo Electric Corp. regarding any handling questions. SECTION VIII - CONTROL MEASURES Respiratory Protection (Specify Type): Not required in normal use. Ventilation: Not required in normal use. Protective Gloves: Eye Protection: Not required in normal use. Not required in normal use. Other Protective Clothing or Equipment: Not required in normal use. Work/Hygienic Practices: N/A. SECTION IX - REGULATORY INFORMATION TSCA: N/A Sara Title III: WE BELIEVE THE STATEMENTS, TECHNICAL INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE RELIABLE, BUT THEY ARE GIVEN WITHOUT WARRANTY OR GUARANTEE OF ANY KIND, EXPRESSED OR IMPLIED, AND WE ASSUME NO

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